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Occupational Computer System Adapted for Science for

the Junior High Student.

INSTITUTION

White Bear Lake Independent School District 624,

Minn.

PUB DATE

[73]

NOTE

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003 845-9

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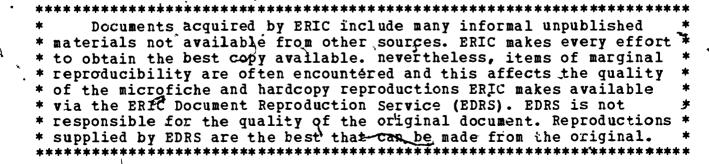
Interactive Lrng Syst Guidance Occupl Info File; Minnesota; TIES Computer System; White Bear Lake

ABSTRACT

The guide, part of an exemplary career education program, contains a science unit for junior high school students which is designed to help students obtain information on science occupations found in the Interactive Learning

System-Guidance-Occupational Information File of the TIES Computer

System in Minneapolis-St. Paul. The guide lists goals and objectives and provides operating procedures for obtaining from the computer either the job description, worker requirements, and related jobs, or the occupational characteristics for any requested occupation. It also provides an eight-page list of science-related occupations with their appropriate job code numbers. It concludes with a sample computer tape printout. (JR)



OCCUPATIONAL COMPUTER SYSTEM

ADAPTED FOR

SCIENCE

A CAREER DEVELOPMENTAL PROGRAM

White Bear Laké Public Schools

US DEPARTMENT OF HEALTH

* EDUCATION & WELFAPE
NATIONAL INSTITUTE OF
* EDUCATION

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OCCUPATIONAL COMPUTER SYSTEM

ADAPTED FOR

SCIÈNCE,

FOR THE

JUNIOR HIGH STUDENT

þy•

Charlotte Winnen

John Strenger

CAREER DEVELOPMENT

Grades 7 - 9

An Exemplary Program · in Career Education

Funded under the Provisions of Part D of the Vocational Education Amendment of 1968

Independent School District #624 White Bear Lake, Minnesota

Ernest M. Thomsen, Superintendent Ron Johnstone, Director Vocational Education

73 مر 1972

TO THE TEACHER:

This project is designed for use with TIES Computer System within the Metropolitan Twin City Area. It is an efficient means of obtaining information on career occupations found in the Interactive Learning System-Guidance-Occupational Information File. Withough this project was specifically designed to obtain information in science careers, it can easily be adapted for any subject area.

By following the simplified entry format, students are then able to gain information by typing the letter "P" plus the occupational code number. The computer replies with a job description, worker requirements, and related jobs. By typing the letter "I" plus the occupational code number the computer itemizes all the occupational characteristics which are true for the selected occupation. The occupational characteristics are keyed by number and their key may be found in the "Occupational Information Study Booklet" found within this unit. Following is a list of the major groupings for the itemized characteristics.

- 1. Levels of Formal Education Preferred or Required by the Employer
- 2. Training other than Formal Education
- 3. Special Vocational Training ,
- 4. Other Qualifications Which May be Required
- 5. Methods of Entering Field
- 6. Advancement
 - 7. Worker Attitudes Desirable for Occupation
- 8. Work Activities which Describe the Occupation
- 9. Tool and Machine Skills.
- 10. Relationships to People
- 11. Physical Demands
 - 12. Working Conditions.
 - 13. Areas of Work Where People in an Occupation May be Employed
- 14. Employment Outlook
- 15. Earnings Range Salary

The occupational code numbers were selected from a list occupations which is obtainable from TIES.

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OCCUPATIONAL COMPUTER SYSTEM ADAPTED FOR SCIENCE

ABSTRACT

Occupational Computer System adapted for science for Independent School District #624. Charlotte Winnen and John Strenger - Science teachers.

After learning that TIES had a time-share Occupational Information Program we decided that this program would be of great value to us in our science classes. However, we discovered it was very difficult to obtain the programmed information as instructed from the "Study Booklet" provided by TIES. As a result, we have developed a unit which allows the student to enter and leave the computer program effeciently, yet allowing him to obtain information about the science occupations he is interested in.

MAJOR OBJECTIVES:

- Students will be able to use the adapted program for explor- a ing various science occupations.
- 2) Students will be able to properly use the computer as a communication media in exploring science occupations.
- 3) The students will be able to use the unit in conjunction with an elective choice in our eighth grade science program.
- 4) The unit will be available for all students to use on an individual basis.

STUDENT GOALS FOR CAREER EDUCATION

- 1) Awareness of career specialization in society.
- 2) Awareness of relationship between occupational requirements. and educational development.
- 3) Exploration of interests in work roles related to science careers.
- 4) Exploration of career-clusters in relationship to personal interest.
- 5) Preparation for identification of immediate steps and cost in terms of time and education requirements of science careers.
- 6) Exploration of Benefits in science career cluster choice.
- 7) Awareness that personal interests will affect personal career choices.
- 8) Exploration of employability readiness based on skills and knowledge and attitudes of entry level jobs.

STUDENT OBJECTIVES

By following the procedure given below, each student will be able to:

- 1) Enter into computer
- 2) Enter into TIES computer: "Interactive Learning System-Occupational Information Program."
- 3) Obtain:
 - a) job description
 - b) job requirements
 - c) list of job qualifications
 - d) related occupations
- 4) Successfully "Q" leave computer system.

EXAMPLE: Computer tape can be found at the end of this unit.

LESSON I: ENTERING COMPUTER SYSTEM

- 1) Dial 636-4950, wait for tone.
- 2) Turn power to "ON".
- 3) Place telephone receiver into carrier.
- '4) Turn teletype knob (bottom-front) to "Line" position.
 - 5) Type any 2 numbers and push RETURN button. Computer will type a response of "PLEASE LOG IN."

LESSON IL: ENTERING INTO TIES COMPUTER "INTERACTIVE LEARNING SYSTEM-OCCUPATIONAL INFORMATION PROCRAM."

WHAT YOU SHOULD DO OR TYPE

- 1. Type: HEL S530, then hold down CTRL button while you type WBLK. Release CTRL button and push RETURN button.
- 2. Type: GET *GIS and push RETURN button
- 3. Type: RUN and push "RETURN"
- 4. Type: OCCU and push RETURN button.

COMPUTER RESPONSE

- 1."READY"
- 2. (no response).
- 3. ... "WHICH FILE"
- 4. "OCCUPATIONAL INFORMATION READY?"

LESSON III: OBTAINING JOB DESCRIPTIONS, JOB REQUIREMENTS, LIST OF JOB QUALIFICATIONS, AND RELATED OCCUPATIONS.

WHAT TO DO OR TYPE

- Type: P (plus selected occupational number found in-adjoining catalogue) .~ and push RETURN
- 2. Type: I (plus an ccupational number found in adjoining catalogue) and push RETURN

COMPUTER RESPONSE

- 1. Gives: job description job requirements. related jobs.
- 2. Gives: List of job qualifications by code numbers found in attached list-

LESSON IV: PROCEDURE FOR LEAVING THE COMPUTER

WHAT TO DO OR TYPE

- 1. Type: Q and push RETURN
- 2. Type: NONE and push RETURN

Type: ,BYE and push RETURN

- Green light on telephone carrier will go off.
- 5. Replace receiver onto the telephone.
- 6. Turn teletype knob to "OFF" position.

- COMPUTER RESPONSE
- 1. "WHICH FILE"

- 3. Gives terminal time

NOTE: The number before the occupation is the JOB CODE number.

OCCUPATIONS IN ARCHITECTURE AND ENGINEERING (D.O.T. FAMILY # 00-01)

34	Aircraft Designer	1148	Engineer, Structural
·67 ⁽	Architect	508	Flight Analyst
68	Architect, Marine	527	Foundry Metallurgist
277		5.2 7 .	Highway Landscape Architect *
366	Director, Physical Testing	657	Laboratory Assistant, Metallurgical
367	Director, Quality Control	. 661	Landscape Architect
381	Draftsman, Aeronautical	751	Metallurgist, Extractive
382	Draftsman, Architectural	752	Metallurgist, Physical
385	Draftsman, General	1116	Specification Writer, Airplanes
386	Draftsman, Landscape	1117	Specification Writer, Engineering
.387	Draftsman, Map	1113	Space Analyst
388	Draftsman, Marine	1160	Şurveyor
390	Draftsman, Structural	1161	Surveyor; Geodetic
19	Engineer, Aeronautical	1162	Surveyor, Marine
22	Engineer, Agricultural	1163	Surveyor, Mine
46	Engineer, Airport	20	Technician, Aeronautical Eng.
221	Engineer', Chemical	23	Technician, Agricultural Eng.
243	Engineer, Civil	244.	Technician, Civil Engineering
26,9	Engineer, Combustion	419	Technician, Electrical
291	Engineer, Construction	614	Technician, Industrial Eng.
414	Engineer, Electrical	740	Technician, Mechanical Eng.
415	Engineer, Electrical Equip.	813	Technician, Ortical
428	Engineer, Electrochemical	937	Technician, Quality Control
447	Engineer, Chief (Petrol)	881	Technician, Plastics Engineering
579	Engineer, Heat Transfer	1125	Technician, Standards-Laboratory
580	Engineer, Heating	1189	Technical Illustrator
.586	· Fingineer, Highway		,
	Engineer, Industrial \		
	Engineer, Marine	₩ CCU	PATIONS IN MATHEMATICS AND
738 ³	Engineer, Measurement and		PHYSICAL SCIENCES
,	Control		O.T. FAMILY # 02)
766	Engineer, Mining		•
921	Engineer, Propulsion	83	Astrometrist
	Systems Design	. 84	Astronomer
898	Engineer, Steam Power Plant	224	Chemist, Analytical
980	Engineer, Rocket-Engine Test	223	Chemist, Agricultural
954	Engineer, Refrigeration	222	Chemical Engineer Technician
1050		، 225	Chemist, Food
987	Engineer, Safety, Mines	226	Chemist, Inorganic ;
853	Engineer. Petroleum	227	Chemist Organic

		•	` •	
_	occu	PATIONS IN MATHEMATICS AND	occu	PATIONS IN LIFE SCIENCES
_	PHYSICAL SCIENCES			T. FAMILY # 04)
	(D.O	.T. FAMILY # 02)	•	
		•	24	Agrogeologist
	251	Climatologist	25	Agronomist
	335	Demographer	52	Anatomist
	448	Engineering Analyst	55	Animal Husbandman
	553	Geographer	128	Biochemist
	554	Geologist	133	Biologist
	555	Geologist, Engineering	131	Biological Aid >
	556	Geologist, Ground Water	134	Biophysicist
	557	Geologist, Mining	155	Botanist
	558	Geologist, Petroleum	330	Dairy Husbandman
	559	Geophysical Prospector	331	Dairy Technologist
	560	Geophysicist	522	Forest Ecologist
	561	Glaciologist	523	Forester
	606	Hydrographer (Meteorological	552	·
		Aid)	594	Horticulturist ·
	607·	Hydrologist	757	Microbiologist
	656		822	Ornamental Horticulturist
		(Lt., Ht., Pr.)	856	Pharmacologist
	659	Laboratory Tester I	-946	Range Manager -
	754)	Meteorologist	1066	
٠	805	Oceanographer, Geological	1106 1107	Soil Conservationist
	806	Oceanographer, Physical		Soil'Scientist
	811	Operations Research Analyst	1267	Vocational Advisor
	863	Physical Geographer	1268	Voçational Counselor
	867	Physicist	1.288	Wood Technologist
	868	Physicist, Atomic & Molecular	•	
	869	Physicist, Electronics		•
	870	Physicist, Light		PATIONS IN SOCIAL SCIENCES
	871	Physicist, Nuclear	(D.O	T. FAMILY # 05)
	872	Physicist, Theoretical		
_	917	Programmer, Engr. & Science		◆Agricultural Economist
	L067	Seismologist		Anthropologist '
-	1138	Statistician, Phy. Science	66	Archeologist
		& Engineer		. Economist
	1269		372	Director, Historical Society
	1277	Weather Chart Preparer		Economic Geographer
-	1278	Weather Observer	1053	Scientific Linguist

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-		* .	•	,
	OCCUI	PATIONS IN MEDICINE AND		•
	HI	ÉALTH	•	
	(D.O.	.T. FAMÎLY`# 07)		
	٠.	•	ħ	\checkmark
	53	Anesthesiologist	.812	Ophthalmologist
	8 9	Audiologist	816	Optometrist
	90	Audiometrist ,	817	Oral Pathologist
	129	Biochemistry Tcchnologist	818	Oral Surgeon
,	138	Clood Bank Technician	824	
		Cardiologist	825	Orthoptist
•	235	Chiropractor #	826	
•	308	Corrective Therapist	841	,Pathologist (
		(Meda Ser.)	8#5	Pediatrician
•	329	Cytotechnologist	847	Periodontist
	336	Dental Assistant	855	
	338	Dental Hygienist (Med. Ser.)	857	
	341	Dentist	864	Physical Therapist
	342	Dermatologist .	866	Physican General Practice
	358	Dietary Consultant	_ 886 _	Podiatrist
	357	Diet Clerk (Diet Aid)	887	Podiatrist's Assistant
•	359/	Dietitian	923	Psychiatrist
	360	Dietitian (Teaching)	930	Public Health Educator
	427	Electrocardiograph Text.	•945	Radiologic Technologist
	429°	Electroencephalograph Tech.	944,	
	510	Flight Surgeon	[.] 969	Research Nutritionist
	551	General Practitioner	1049 '	Sanitarian .
	57 5	Gynecologist	1068	Serology Technician (Med. Ser.)
	578	Hearing Clinician .	1:13.9	Speech Clinician (Correctionist)
	583	Hematology Technician	/1118	Speech & Hearing Clinician
		(Med. Ser.)	1120	Speech Pathologist
	620	Inhalation Therapist .	1123	Nurse, Staff, Occupational
	658	Laboratory Technician, Vet.	1153	Surgeon
	742	Medical Assistant .	1159	Surgical Technician
	744	Modical Laboratory Ass.	1254	
	748	Medical Technologist		.Veterinarian (Med. Ser.)
	758	Microbiclogy Technologist	1260	Veterinarian, Laboratory Animal
	796	Nuclear Medical Technol- '	1263	Veterinary Livestock Inspector
		· ogist	1264	Veterinary Virus-Serum Inspector
	₹98	Nurse Anesthetist .		
٠,	957	Murse; Registered, Gen. Duty	,	•
	4 99	Nurse Licensed Practical		PATIONS IN EDUCATION
	.800	Nurse, Office (Med. Ser.)	(D.O	.T. FAMILY # 09)
	909	Nurse, Private Duty		,
	802	Obstetrician	314	County Agricultural Agent (Gov. Ser.)
	803 ~	Occupational Therapist	315	_ · · · · · · · · · · · · · · · · · · ·
	804	Occupational Therapy Aid	471	Extension Service Agent (Gov.)
		~743	•.	•

(Cont-d)

		•	:	
	OCCUE	PATIONS IN EDUCATION	occu	PATIONS IN LAW AND JURISPRUDENCE
		T. FAMILY # 09) >		T. FAMILY # 11)
	-	•)	
. •	472	Extension Service Specialist	246	Claim Attorney (Insurance)
	476	Faculty Member, College	378	District Attorney (Gov. Ser.)
		or University	653	Judge
	485	Feed & Farm Management	665	Law Clerk
	•	Advisor	568	Lauyer
	528		**	Lawyer, Corporation
	571	Ground Instructor, Basic		Patent Agent
	591	Home Economist	1171	Tax Attorney .
z	5.92	Home Economist, Consumer		
		Service		· · · · · · · · · · · · · · · · · · ·
	624	Instructor, Extension Work	OCCU:	PATIONS IN WRITING
	626	Instructor, Military Science	(D,0	.T. FAMILY # 13)
	906	Principal, School	,	•
1	175	Teacher, Blind	.14 .	Advertising Copywriter
	176	Teacher, Deaf		Copy Reader
	.177 `	Teacher, Elementary School		Copy Writer
	.i78	Teacher, Handicapped	401	Editor, News (Radio & TV)
			402.	Editor, Newspaper
	1.80	Teacher, Junior College	404	Editorial Writer
	181	Teacher, Kindergarten	484	'Feature Writer (Print & Pub.)
	182	Teacher, Mentally Retarded	5 37	Gag Writer
	.184	Teacher, Secondary School	577	Handbook Writer
'n	185	Teacher, Speech	645	Interpreter
1	186	Teacher, Technical Education	677	Lexicographer
	•	3 '	. 966	Reporter, News
		- 4	976	Rewrite Man (Print & Pub.)
	OCCUP	PATIONS IN MUSEUM, LIBRARY,	1058	Script Writer
		RCHIVAL SCIENCE	1188	Technical Editor
	(D.O.	T. FAMILY # 10)	1289	Writer, Technical Publications
			•	•
	207	Cataloger (Library)		
	24,7	Classifier (Library)	occuj	PATIONS IN ART
	487	Film Librarian	(D.O	.T. FAMILY # 14)
	678	Librarian		
	679	Librarian, Reference Lib.	16	Advertising Illustrator
	745	Medical Record Librarian	132	Biological Photographer
	•	•	147	Book Illustrator
	•		197	Cartoon Background Artist
		••	206	Catalog Illustrator
		1	272	Commercial Photographer
			362	Director, Art (Commercial)
		<u>.</u>	•	` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` `

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			- , , , , ,	•	
376.	Display Designer (Outside)	932	Public Relations Man	1	
57 0	Graphic Artist	933			
610	Illustrator	935	Purchasing Agent		
611	Industrial Pesigner -	1170	Tax Accountant		
701	Magazine Illustrator '		•		
.743	Medical Illustrator	, .	, .÷		
794	News Photographer	MANA	GERS AND OFFICIALS		
860	Photographer, Commercial	(D.O	.T. FAMILY # 18)		
986	Safety Clothing & Equip.		4		
•	Dev. Man	1155	Superintendent, Fark		•
L054	Scientific Photographer	1228	Trafic Manager (Air,		Trans.
1073	Set Director ·		Traffic Manager (Any		
1124	Stage Scenery Designer	1			
195	TV Film Field Coordinator				
\rightarrow	•				

OCCUPATIONS IN ENTERTAINMENT -E RECREATION (D.O.T. FAMILY # 15)

- 56 Announcer, International Broadcast
- 58 Announcer, Radio
- 59\ Announcer, Supervisor
- 60 \Announcer, Television
- 627 Instructor, Physical Educ.

OCCUPATIONS IN ADMINISTRATIVE SPECIALIZATIONS (D.O.T. FAMILY # 16)

- 13 Advertising Assistant
- 15 Advertising Director (Print & Pub.)
- 18 Advertising Manager
- 165 Broker (Ret.; Whol. Tr.)
- 326 Customs Inspector
- 444 Employment Interviewer
- 616 Industrial Relations Dir.
- 877 Placement Officer (Educ.)
- 931 Public Information Writer

MISCELLANEOUS PROFESSIONAL, TECHNICAL & MANAGERIAL OCCUPATIONS (D.O.T. FAMILY # 19)

- 31 Air Traffic Cont. Specialist,
 Tower
 - 30 Air Traffic Control Specialist, Sta.
- '40 Airline Radio Operator, Chief-
- 42 Airplane Pilot (Agric.)
- 43 Airplane Pilot, Commercial
- 188 Camp Director
- 228 Chief, Air Traf. Control Supv., Gov.
- 242 City Planning Engineer
- 276 Community Organization Worker
- 278 Community Relations Service Adv.
- 625 Instructor, Flying
- 791 Navigator (Air: Trans.)
- 929 Public Health Assistant
- 943 Radiographer (Industrial X-Ray)
- 1101 Social Worker, Medical
- 1203 Test Pilot

STENOGRAPHY, TYPING, FILING AND RELATED OCCUPATIONS (D.O.T. FAMILY # 20) 746 Medical Secretary 747 Medical Stenographer COMPUTING AND ACCOUNT-RECORDING	996 998 1001 1011 1013 1072 1040 1042 1047	Service-Salesman, Milking Mach. Salesperson, Furs (Ret. Trade).
OCCUPATIONS	•	,
(D.O.T. FÁMILY # 21)		÷.
•	FOOD	HAND BEVERAGE PREPARATION AND
1132 Statistical Clerk '	SERV	ICE OCCUPATIONS
	(D.O	.T. FAMILY # 34t)
·		,
INFORMATION AND MESSAGE	737	Meat Cutter
DISTRIBUTION OCCUPATIONS	·	•
(D.O.T. FAMILY # 23)		
* · · · · · · · · · · · · · · · · · · ·	BARB	ering, cosmetology, & related
12 Admitting Officer (Med. Ser.) SERV	ICE OCCUPATIONS
- ,	`(D.0	.T. FAMILY # 33)
6	122	Beautician ·
SALESMAN, SERVICES	310	Cosmetologist
(D.O.T. FAMILY # 25)		Electrologist
		Embalmer
549 General Agent, Insurance		•
639 Insurance Agent .		•
640 Insurance Broker	MISC	ELLANEOUS PERSONAL SERVICE 🥞
673 Leaseman (Bus. Ser.)		PATIONS
681 Life Underwriter		T. FAMILY # 35)
348 Real Estate Broker	•	
956 Registered Account Advisor	774	Morgue Man (Med. Ser.)
1009 Salesman, Insurance		Veterinary Hospital Attendant
852 Salesman, Pest Control Ser.		· · · · · · · · · · · · · · · · · · ·
1023 Salesman, Public Utilities		•
1025 Salesman, Real Estate	PROT	ECTIVE SERVICE OCCUPATIONS
1020 Dalesman, Near Docate		T. FAMILY # 37)
	(2.0	
SALESMEN AND SALESPERSONS,	2 7 0	Commanding Officer, Harbor Police
COMMODOTIES .	2 7 1	Commanding Officer, Homicide Sq.
(D.O.T. FAMILY # 26 - 27 - 28)	3 45	Detective, Plainclothesman
,	3 46	
2 4 Commission Man, Agric.	491	Fire Fighter
Produce	492	Fire Fighter, Crash (Air Trans.)
854 Pharmaceutical Detail Man	493	Fire Inspector
(Whol.)	646	Investigator, Narcotics
/ WDOT • 1	070	Titles eracer a marcotres

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PLANT FARMING OCCUPATIONS (D.O.T. FAMILY # 40)	HUNTING, TRAPPING, & RELATED OCCUPATIONS (D.O.T. FAMILY # 45)
662 Landscape Gardener 801 Nurseryman 1152 Superintendent, Greens 1244 Tree Surgeon	538 Gamekeeper 602 Hunting & Fishing Guide
	AGRICULTURAL SERVICE OCCUPATIONS (D.O.T. FAMILY # 46)
ANIMAL FARMING OCCUPATIONS (D.O.T. FAMILY # 41)	72 Artificial Breeding Technician 332 Dairy Tester
54 Animal Caretaker 480 Farmer, Dairy	
532 Fur Farmer 896 Poultryman, Meat (Poultry Farmer)	OCCUPATIONS IN FABRICATION, ASSEMBLY, & REPAIR OF METAL PRODUCTS
MISCELLANEOUS FARMING '&	168 Brooch Maker 569 Gold Beater (Gold Leaf & Foil) 648 Jeweler
RELATED OCCUPATIONS (D.O.T. FAMILY # 42)	1093 Silversmith (Silverware)
481 Farmer, General 1122 Sprayer (Agric.) FISHERY AND RELATED OCCUPATIONS (D.O.T. FAMILY # 43)	OCCUPATIONS IN HABRICATION & REPAIR OF SCIENTIFIC & MEDICAL APPARATUS, PHOTO-GRAPHIC & OPTICAL GOODS, WATCHES & CLOCKS, AND RELATED PRODUCTS (D.O.T. FAMILY # 71)
502 Fish Farmer 503 Fisherman, Hoop Net (Fish) 1081 Shellfish-Bed an FORESTRY OCCUPATIONS (D.O.T. FAMILY # 44)	339 Dental Laboratory Technician 340 Dental Technician, Crown & Bridge 608 Hydrometer Calibrator 622 Inspector, Optical Elements 814 Optician, Dispensing 815 Optician, Optical Mechanic
494 Fire Lookout (Gov. Ser.) 524 Forester Aid 1242 Tree Planter (Forestry) 1243 Tree Pruner (Forestry)	PAINTING, DECORATING, & RELATED OCCU- PATIONS (D.O.T. FAMILY # 74) 445 Enameler, Jewelry



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EXCAVATING; GRADING, PAVING, & RELATED OCCUPATIONS IN FABRICATIONS & REPAIR OF SAND, STONE, CLAY, OCCUPATIONS & GLASS PRODUCTS (D.O.T. FAMILY # 85) (D.O.T. FAMILY # 77) 169 Bulldozer Operator 394 Dredge Operator (Const.) 348 Diamond Cutter 462 Excavator OCCUPATIONS IN METAL FABRICATING 1245 Trench Digging Machine Operator (D.O.T. FAMLLY # 80) CONSTRUCTION OCCUPATIONS 304 Coppersmith (D.O.T. FAMILY # 86) 1214 Tinsmith . 74 Asbestos Worker * 140 Boatbuilder, Wood 195 Carpenter (Construction) WELDERS, FLAME CUTTERS, & RELATED OCCUPATIONS (D.O.T. FAMILY # 81) 1145 Stonemason 973 Resistance Machine Welder OCCUPATIONS IN PRODUCTION & DISTRIBU-974 Resistance Welding Tech. TION OF UTILITIES (D.O.T. FAMILY # 95) ELECTRICAL ASSEMBLING, INSTALLING & REPAIRING OCCUPATIONS . 899 Power-Reactor Operator 1131 Stationary Engineer (D.O.T. FAMILY # 82) 468 Experimental-Rocket-Sled OCCUPATIONS IN GRAPHIC ART WORK Mechanic 486 Field Engineeer (Electronics) (D.O.T. FAMILY # 97) 753 Meteorological Equipment Rep**air**man 265 Color-Laboratory Technician 753 Meteorological Equipment 1110 Sound & Laboratory Engineer Repairer

PAINTING, PLASTERING, WATER-PROOFING, CEMENTING, & RELATED OCCUPATIONS

(D.O.T. FAMILY # 84)

135 Bitumihous Enameler

565 Glass Tinter (Glass Prod.)

663 Lather (Const.)

COMPUTER TAPE EXAMPLE

HEL-S530

PORT 9 4-18-73 3:15 PM FOR SYSTEMS NEWS GET AND RUN SYSNEW.

WELCOME TO T J E S 2000C1 TIME SHARING SYSTEM.
READY

GET-*dIS
RUN
GIS /
READ-ONLY FILES:
#1 #2 #3 \

INTERACTIVE LEARNING SYSTEMS

GUIDANCE INFORMATION

WHICH FILE? OCCU

OCCUPATIONAL INFORMATION READY

?P561

561 , GLACIOLOGIST 024.081

COMPUTER TAPE EXAMPLE

(Cont-d)

JOB DESCRIPTION AND WORKER REQUIREMENTS: STUDIES THE EFFECTS OF GLACIERS ON THE CHANG-ING EARTH:S SURFACE. APPLIES, KNOWLEDGE OF CHEMISTRY, PHYSICS, MATH & BIOLOGY. REQ. ABILITY TO ACQUIRE NEEDED ACADEMIC BACK-GROUND; THOROUGHNESS; INQUISITIVE MIND.

RELATED JOBS:
HYDROLOGIST
OCEANOGRAPHER, PHYSICAL
SEISMOLOGIST
MINERALOGIST
FOR FURTHER INFORMATION:
AMERICAN GEOPHYSICAL UNION
2100 PENNSYLVANIA AVE., NW. WASH., D.C. 20037
SOCIETY OF EXPLORATION GEOPHYSICISTS
BOX 3098, TULSA, OKLAHOMA 74101

GLACIOLOGIST

104 106 154 156 159 * 162 244 246 6 **2**8**7** ·289 292. °

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WHICH FILE?NONE

END BYE 003 MINUTES OF TERMINAL TIME

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